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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/043,260	01/14/2002	Hiroaki Kitahara	041514-5211	4661	
9629	7590 04/26/2004		EXAMINER		
MORGAN LEWIS & BOCKIUS LLP			TURNER, SAMUEL A		
	YLVANIA AVENUE NW DN. DC 20004		ART UNIT	PAPER NUMBER	
Wilding	511, 20 20001		2877		
			DATE MAILED: 04/26/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

					$\mathcal{A}Y$		
		Applica	ation No.	Applicant(s)			
Office Action Summary		10/043	,260	KITAHARA ET AL.			
		Examir	ı r	Art Unit			
		Samue	A. Turner	2877	_		
Period fo	- The MAILING DATE of this commun r Reply	nication appears on	the cover sheet with the	ecorrespondenc address	5		
THE N - Exten after S - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN sions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (i period for reply is specified above, the maximum is e to reply within the set or extended period for repl eply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no munication. 30) days, a reply within the statutory period will apply and will, by statute, cause the	event, however, may a reply be statutory minimum of thirty (30) o d will expire SIX (6) MONTHS fro application to become ABANDO	timely filed days will be considered timely. om the mailing date of this commun NED (35 U.S.C. § 133).	lication.		
Status							
1)□	Responsive to communication(s) fil	ed on					
2a)□	This action is FINAL.	2b)⊠ This action is	s non-final.				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the a 4a) Of the above claim(s) is/s Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict.	are withdrawn from					
Applicati	on Papers						
10)⊠	The specification is objected to by the drawing(s) filed on 15 April 200 Applicant may not request that any objected the Replacement drawing sheet(s) including the oath or declaration is objected to	2 is/are: a)☐ acce ection to the drawing(g the correction is req	s) be held in abeyance. S uired if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.			
Priority u	ınder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 3. Copies of the certified copies application from the Internations the attached detailed Office actions.	y documents have by documents have be of the priority document for the priority documenal Bureau (PCT F	peen received. Deen received in Applic Deen received in Applic Deen received Rule 17.2(a)).	cation No eived in this National Stag	Je		
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date 7-18-03.		4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:)		

DETAILED ACTION

Title

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Drawings

The drawings are objected to because figures 1 and 2 must be labeled as prior art. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

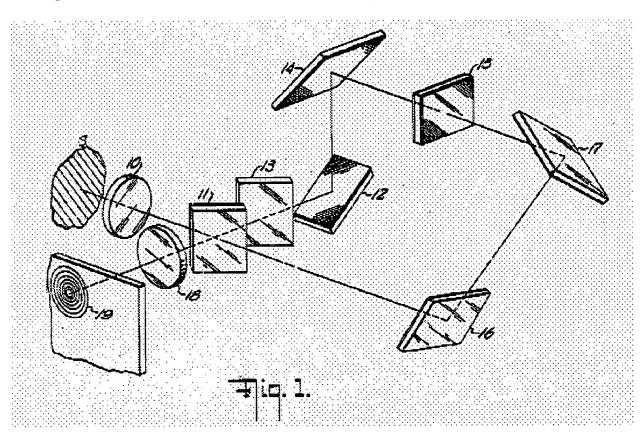
Claims 1, 2, 5, and 6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Scott(2,841,049).

Scott teaches a displacement interferometer comprising a source(S), beam-splitter(11), an object(15) having back-to-back reflective surfaces, and opposing incident optical system(12,14,16,17). See column 4, lines 27-44 on the benefits of a push-pull type system as this arrangement doubles the sensitivity of the interferometer. It has been held that a preamble is denied the effect of a limitation

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where the claim is drawn to a structure and the portion of the claim following the preamble is a self-contained description of the structure not depending for completeness upon the introductory clause. *Kropa v. Robie*, 88 USPQ 478 (CCPA 1951). Thus limitations that may be drawn to a heterodyne or homodyne system found in the preamble, while obvious, are denied the effect of a limitation.



Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3, 4, 7, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scott(2,841,049).

Not taught in Scott is an application to a cylinder.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Scott apparatus to any object for which displacement along a single axis is to be measured. As the light from the interferometer is incident at only a single location on the cylinder the system optics would not in any way change the function of the apparatus.

With specific regard to claims 4 and 8, providing a plurality of systems is a mere duplication of parts to measure displacement of the object along another axis, such as found in an X-Y stage. It has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Turner whose phone number is 571-272-2432.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached on 571-272-2415.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-**272-1562**.

Any other inquiry of a technical nature, and all inquiries of a general nature or any patent term adjustment should be directed to TC2800 Customer Service Office whose telephone number is 571-272-1585.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Samuel A. Turner **Primary Examiner**

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